

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

June 04, 2013

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8510050, issued to MURVIN & MEIER OIL CO., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: KIRBY ET AL #2

Farm Name: KIRBY, MARGARET ,.ET AL

API Well Number: 47-8510050
Permit Type: Vertical Well

Date Issued: 06/04/2013

Promoting a healthy environment.

WW - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA

DEPA	RTMENT					OIL AND GAS	
		W	ELL WORK PE	RMIT APPLIC	CATION 85	03	612
1) Well Operato	or Mus	V17 Q1	d Meier Di	1 Co 307 Oper	980 R.tchi ator ID County	e Murphy Sm District Qui	nthenle 1 adrangle
2) Operator's W	/ell Numb	oer: <i>K</i>	suby et al	*2	3) Elevation:	1138	
4) Well Type: (a							
(t) If Gas:	Produ	ction <u>x</u> / Unc	derground Sto	rage		
		Deep		/ Shallow	X		
Proposed To	tal Depth fresh wa	ter strata	depths:	Formation at I	Proposed Tar Proposed Tota	get Depth: <u>64</u> al Depth: <u>Rhin</u>	oo estrust
9) Approximate	coal sea	m depths	s:	none			
10) Approximat	e void de	pths,(coa	al, Karst, other):	none	-		c
11) Does land	contain co	oal seam	s tributary to act				_
12) Describe pr	roposed v	vell work	in detail	Orill and	Complete	New Well	

13)		CA	ASING AND TUE	BING PROGR	<u>RAM</u>		
TYPE S	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	<u>CEMENT</u>	
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor							
Fresh Water	113/4	A500	32	300	300	CTS	
Coal	,,,,	,,					
Intermediate	8 1/8	A500	23	2025	2025	CTS	
Production	4//2	WT 65	9.5	635D	6350	550	
Tubing			-		Board		0

Liners
Packers:

Kind

Sizes

Depths Set

Deck 1 2013

Office of Oil and Gas
WV Dept-of Environmental Protection

WW-2A (Rev. 6-07)		1). Date: 2.) Operato 3.) API We	or's Well Number State Il No.: 47-	2013 Kirby County 085 -	<i>Eta *2</i> Permit
DEP	STATI ARTMENT OF ENVIRONME <u>NOTICE AND APPLIC</u>		N, OFFICE OF		S Check =
4) Surface Ow (a) Name Address (b) Name	mer(s) to be served: Margaret Kirby B945 N. Calhoun Big Springs, WV. 261		er(s) with Declarate		
Address		Name Address			
(c) Name Address		Name Address			
6) Inspector Address	Mr. David Cowan Boxe Box 202 Harryville WV 2636	Name	ee with Declaratio		
Telephone	304-389-3509	NAMED ABOVE TAKE			oil and gas
I certify application, a local policy application, a local policy application, a local policy application of the local policy application, a local policy application of the local policy applicat	under penalty of law that I have p form and all attachments, and that	2-6 of the West Virginia uments pages 1 through ttached) costal receipt attached) ation attached) and 35 CSR 4, and I agreement as based on my inquiry of tion is true, accurate and ties for submitting false in the core of	Code I have served on the above regree to the terms at am familiar with the fithose individuals it complete.	and conditions of this named parties by and conditions of the information so immediately resumed the possibility	f any permit ubmitted on ponsible for
Oil and Gas Privacy The Office of Oil an Your personal infor with statutory or re information. If you depprivacyofficer@		agencies or third parties in the	he normal course of bu	usiness or as need	ed to comply our personal

WW-2A1 (Rev. 1/11)

Operator's Well Number

Kirby etal 2

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee,	Less	ee, et	c.		Royalty	Book/Page
Margaret Kirby	Musun	n and	d Mei	er l	1/6	7/16	254/853
Ernest Wagoner	11	"	"	"	"	7/16	254/862
Leota H. Cunningham	21	"	11		"	13/336	254/844
Ester McGray Bell	,,	**	,,	"	"	29/336	254/835
/							,

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

Received

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Murvin and Miles Di/ Co.
By:	Gay h, Hill
Its:	Vice President

Well No. Kirby et al #2

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

Certified Laboratory Name Reliance Labs
Contractor Name Smith Land Surveying, Inc. – Environmental Division

 Well Operator
 Murvin & Meier Oil Company

 Address
 P.O. Box 396

 Olney, IL 62450

 Telephone
 618-395-4405

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Received

NOTE: There appears to be 2± no potable water sources within 1,000', therefore tests will be offered and samples taken as required.

MAY 1 5 2013



P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

OPERATOR:	Murvin & Meier Oil	Company		
LEASE NAMI	AND NUMBER: _	Kirby # 2	 	

COMMENTS

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the proposed well site. The following landowners will be notified of the opportunity to request a water sample.

*Please note that the following information is subject to change upon field inspection.

INDIVIDUAL CONTACTED OR NOTIFIED

Owner/Occupant:	Lawrence L. & Sandra K. Lenhart		
		Letter/Notice Date:	
Comments: Par # 2			
Owner/Occupant: _	Margare Kirby		
Address: <u>8945 N.</u>	Calhoun HWY, Big Springs, WV. 26137	Letter/Notice Date:	
Comments: Par # 2	23		
Owner/Occupant:			
Address:		Letter/Notice Date:	
Owner/Occupant:			
		Letter/Notice Date:	
Owner/Occupant:			
Address:		Letter/Notice Date:	
		·	

MAY 1 5 2013

WATER SAMPLES

DRAWN BY FILE NO. DATE K.D.W. 7767 12/22/11

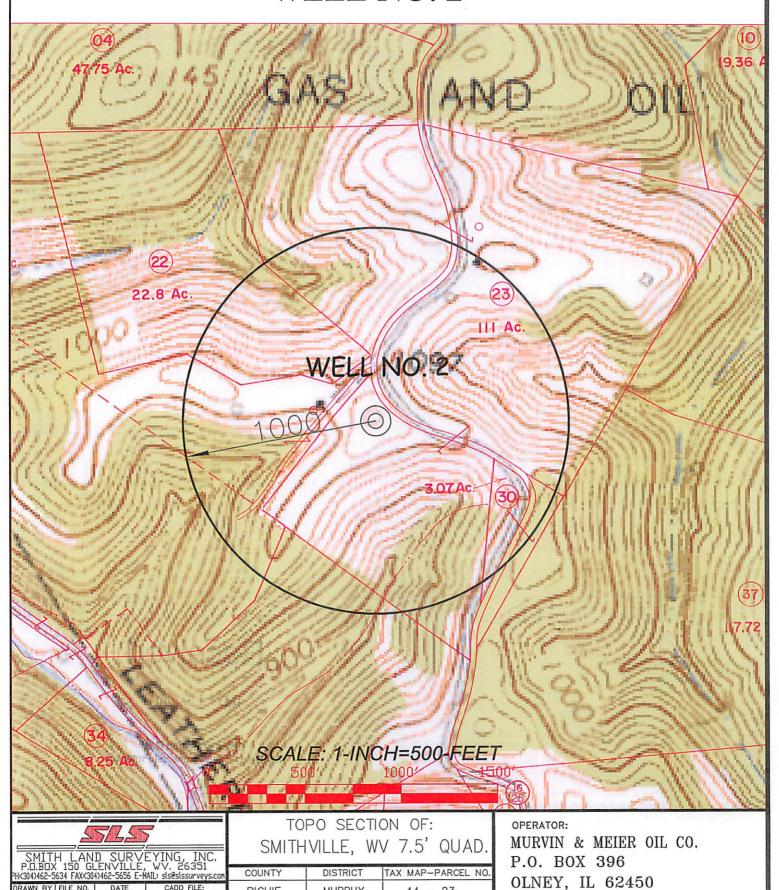
RICHIE

MURRHY

44 - 23

KIRBY ET AL LEASE WELL NO. 2

page of



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API Number 47 - 085 Operator's Well No. Kirby et al 2

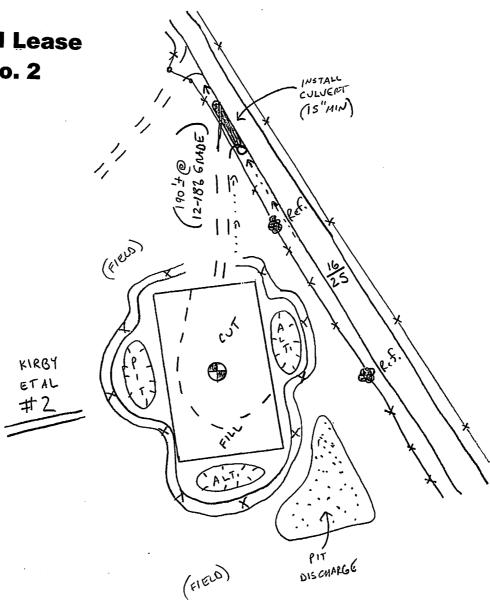
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE
Operator Name Murvin and Meier Oil Co. OP Code 307980
Watershed M, ddle Fork of Legtherback Creek Quadrangle Smithville 7.5
Elevation 1138' County Ritchie District Murphy
Description of anticipated Pit Waste: Dr. 11 Fluid, Frac Flow Back, Various Formation Cettings
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a synthetic liner be used in the pit? If so, what mil.?
Proposed Disposal Method For Treated Pit Wastes:
Drilling medium anticipated for this well? Air, freshwater, oil based, etc
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Vige President Receive
Subscribed and sworn before me this 9th day of May 15 2013
Borlina A- All Monthly Rublidge of BARBARA A. HILL
My commission expires Form WW-9 STATE OF OHIO Comm. Expires October 31, 201

Property Boundary	Diversion ecception of the Diversion of the Control
Rond = = = = = = =	== Spring O
Existing Fence — X — X — X	
Planned Fence / /	Drain Pipe with size in Inches (3)
Stream	Waterway C+ C+ C+ C+
Open Ditch	Cross Drain
Rock Estable	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Dist	urbed / +/- Prevegetation pH
	•
Lime Tons/acre or	to correct to pH
Fertilizer (10-20-20 or equivalent)	15s/acre (500 lbs minimum)
,	
Mulch Hay	2. Tons/acre
	Seed Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
KY-31 40	Orchard Grass 15
	Alsike Clover 5
Alsike Cloves 5	HISIKE CIOVER 3
Annual Rue 15	
	





ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WY D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WY D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS(TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND CUTLETS AS REQUIRED IN THE WV D.E.P. CILAND GAS BMP MANUAL. FIELD CONDITIONS(ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED,

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

Receive

De MAY 15 2010

Office of Oil and Gas



DRAWNBY C.f.M.

DATE 12/21/11

Phone: (304) 462-5634 Fax: 462-5656 email: sls@slssurveys.com

FILE NO. 7767

